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INFORMATION DISCLOSURE STATEMENT BY APPLICANT																											
(Use as many sheets as necessary)																											
Sheet 1 of 7 Attorney Docket No: 4011																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2" style="text-align: center; border-bottom: 1px solid black;">Complete if Known</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">Application Number</th> <th style="text-align: center;">10/828,745</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">Filing Date</th> <th style="text-align: center;">04/21/2004</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td style="text-align: center;">First Named Inventor</td> <td>Michael L. Whitehead</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">Art Unit</td> <td>3662</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">Examiner Name</td> <td>Gregory C. Issing</td> </tr> </tbody> </table>						Complete if Known				Application Number	10/828,745			Filing Date	04/21/2004			First Named Inventor	Michael L. Whitehead			Art Unit	3662			Examiner Name	Gregory C. Issing
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US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
		US-6052647	04/18/2000	Parkinson et al.	
		US-2003/187560	10/02/2003	Keller, Russell J., et al.	
		US-6230097	05/08/2001	Dance et al.	
		US-5523761	06/04/1996	Gildea	
		US-5739785	04/14/1998	Allison	
		US-5148179	09/15/1992	Allison	
		US-5155490	10/13/1992	Spradley et al.	
		US-5389934	02/14/1995	Kass	
		US-5467282	11/14/1995	Dennis	
		US-5477228	12/19/1995	Tiwari et al.	
		US-5702070	12/30/1997	Waid	
		US-5821900	10/13/1998	Kishimoto	
		US-5828336	10/27/1998	Yunck et al.	
		US-5903235	05/11/1999	Nichols	
		US-6018313	01/25/2000	Englemayer et al.	
		US-6049304	04/11/2000	Rudel et al.	
		US-6023239	02/08/2000	Kovach	
		US-6144335	11/07/2000	Rogers	
		US-6304210	10/16/2001	Allison et al.	
		US-6324473	11/27/2001	Eschenbach	
		US-6371416	04/16/2002	Hawthorne	
		US-6411254	06/25/2002	Moeglein et al.	
		US-6415229	07/02/2002	Diekhans	
		US-6425186	06/30/2002	Oliver	
		US-6484097	11/19/2002	Fuchs et al.	
		US-6567041	05/20/2003	O'Dell	
		US-6618671	09/09/2003	Dooley et al.	
		US-6756938	06/29/2004	Zhao et al.	
		US-6788951	09/07/2004	Aoki et al.	
		US-6819269	11/16/2004	Flick	
		US-6865484	03/08/2005	Miyasaka	
		US-6822314	11/23/2004	Beasom	
		US-2005/0116859	06/02/2005	Miller	
		US-2004/0212533	10/28/2004	Whitehead	

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		US-6792380	09/14/2004	Toda	
		US-6313788	11/06/2001	Wilson	
		US-6587761	07/01/2003	Kumar	
		US-6256583	07/03/2001	Sutton	
		US-5917448	06/29/1999	Mickelson	
		US-5543804	08/06/1996	Buchler et al.	
		US-5757316	05/26/1998	Buchler	
		US-5617317	04/01/1997	Ignagni	
		US-5561432	10/01/1996	Knight	
		US-6421003	07/16/2002	Riley et al.	
		US-6249398	07/10/2001	Riley	
		US-5534875	07/09/1996	Diefes et al.	
		US-5296861	03/22/1994	Knight	
		US-5511623	04/30/1996	Frasier	
		US-5564632	09/09/1997	Walker	
		US-5725230	03/10/1998	Walkup	
		US-6434462	08/13/2002	Bevly et al.	
		US-6631916	10/14/2003	Miller, Merle E.	
		US-6076612	06/20/2000	Carr et al.	
		US-6688403	02/10/2004	Bernhardt et al.	
		US-6336066	01/01/2002	Pellenc et al.	
		US-4132272	01/02/1979	Holloway et al.	
		US-4453614	06/12/1984	Allen et al.	
		US-5810095	09/22/1998	Orbach et al.	
		US-6314348	11/06/2001	Winslow, Phillip D.	
		US-5935183	08/10/1999	Sahm et al.	
		US-2004/0210357	10/21/2004	McKay et al.	
		US-6501422	12/31/2002	Nichols, Mark E.	
		US-4802545	02/07/1989	Nystuen et al.	
		US-2004/0186644	09/23/2004	McClure et al.	
		US-3737710	04/17/1973	Sanders et al.	
		US-5918558	07/06/1999	Susag	
		US-5031704	07/16/1991	Fleischer et al.	
		US-5156219	10/20/1992	Schmidt et al.	05/09/1991
		US-5941317	08/24/1999	Mansur	07/30/1997

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US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
		US-6553299	04/22/2003	Keller et al.	
		US-2003/0009282	01/09/2003	Upadhyaya et al.	
		US-6671587	12/30/2003	Hrovat et al.	
		US-6445983	09/03/2002	Dickson, Monte A., et al.	
		US-2002/165648	11/07/2002	Zeitler, David W.	
		US-6703973	03/09/2004	Nichols, Mark E.	
		US-5548293	08/20/1996	Cohen et al.	
		US-5546093	08/13/1996	Gudat et al.	
		US-2002/165669	11/07/2002	Pinto, Robert et al.	
		US-5875408	02/23/1999	Pinto, Robert	
		US-5375059	12/20/1994	Krytsos et al.	
		US-5923270	07/13/1999	Sampo et al.	
		US-5491636	02/13/1996	Robertson	
		US-5610845	03/11/1997	Slabinski	
		US-5777578	07/07/1998	Chang et al.	
		US-5862501	01/19/1999	Talbot et al.	
		US-5928309	07/27/1999	Korver et al.	
		US-5940026	08/17/1999	Popeck	
		US-5943008	08/24/1999	Dusseldorf	
		US-5987383	11/16/1999	Keller	
		US-6062317	05/16/2000	Gharsalli	
		US-6205401	03/20/2001	Pickhard et al.	
		US-6236924	05/22/2001	Motz	
		US-6325684	12/04/2001	Knight	
		US-6345231	02/05/2002	Quincke	
		US-6445990	09/03/2002	Manring	
		US-6466871	10/15/2002	Reisman et al.	
		US-2002/20038171	03/28/2002	Deguchi et al.	
		US-2002/0175858	11/28/2002	Takahashi	
		US-2002/0038171	03/28/2002	Deguchi et al.	
		US-6463374	10/08/2002	Keller et al.	

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US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
		US-5644139	07/01/1997	Allen	
		US-6389345	05/14/2002	Phelps	
		US-4858132	08/15/1989	Holmquist	
		US-4918607	04/17/1990	Wible	
		US-5369589	11/29/1994	Steiner	
		US-5390125	02/14/1995	Sennott et al.	
		US-5592382	01/07/1997	Colley	
		US-5612883	03/18/1997	Shaffer et al.	
		US-5615116	03/25/1997	Gudat et al.	
		US-5684696	11/04/1997	Rao et al.	
		US-5717593	11/04/1997	Gvilli	
		US-5765123	06/09/1998	Nimura et al.	
		US-5838562	11/17/1998	Gudat et al.	
		US-5945917	08/31/1999	Harry	
		US-5956250	09/21/1999	Gudat et al.	
		US-6014608	01/11/2000	Seo	
		US-3727710	04/17/1973	Sanders et al.	
		US-3899028	08/12/1975	Morris et al.	
		US-4180133	12/25/1979	Collogan et al.	
		US-4637474	01/20/1987	Leonard	
		US-5152347	10/06/1992	Miller	
		US-5207239	05/04/1993	Schwitalia	
		US-5255756	11/28/2006	Follmer et al.	
		US-5664632	09/09/1997	Frasier	
		US-6233511	05/15/2001	Berger et al.	
		US-6431576	08/13/2002	Viaud et al.	
		US-6865465	03/08/2005	McClure	
		US-2002/0072850	03/08/2005	McClure et al.	
		US-5476147	12/19/1995	Fixemer	
		US-7026982	04/11/2006	Toda et al.	
		US-7162348	01/09/2007	McClure, John A., et al.	
		US-2006/0017611	01/26/2006	Hatch et al.	
		US-6449558	09/10/2002	Small, David A.	
		US-6100842	08/08/2000	Dreier et al.	
		US-5936573	08/10/1999	Smith, Derek S.	

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		US-6553311	04/22/2003	Aheam et al.	
		US-7162384	01/09/2007	Browning et al.	
		US-6539303	03/25/2003	McClure et al.	
		US-6199000	03/06/2001	Keller et al.	
		US-6198992	03/06/2001	Winslow	
		US-6711501	03/25/2003	McClure, John A., et al.	
		US-6397147	05/28/2002	Whitehead, Michael	
		US-6643576	11/04/2003	O'Connor et al.	
		US-6377889	04/23/2002	Soest, Gerard V.	
		US-6236916	05/22/2001	Staub et al.	
		US-6542077	04/01/2003	Joao	
		US-6469663	10/22/2002	Whitehead et al.	
		US-6285320	09/04/2001	Olster et al.	
		US-6229479	05/08/2001	Kozlov et al.	
		US-6191733	02/20/2001	Dizchavez	
		US-6122595	09/19/2000	Varley et al.	
		US-6057800	05/02/2000	Yang et al.	
		US-6515619	02/04/2003	McKay, Jr.	
		US-5969670	10/19/1999	Kalafus et al.	
		US-4812991	03/14/1989	Hatch	
		US-5471217	11/28/1995	Hatch et al.	
		US-6198430	03/06/2001	Hwang et al.	
		US-5583513	12/10/1996	Cohen	
		US-5608393	03/04/1997	Hartman	
		US-5610616	03/11/1997	Vallot et al.	
		US-5477458	12/19/1995	Loomis	
		US-6392589	05/21/2002	Rogers et al.	
		US-5899957	05/04/1999	Loomis	
		US-6061632	05/09/2000	Dreier	
		US-5365447	11/15/1994	Dennis	
		US-4751512	06/14/1988	Longaker	
		US-5617100	04/01/1997	Akiyoshi et al.	
		US-5323322	06/21/1994	Mueller et al.	
		US-5490073	02/06/1996	Kyrtos	

FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²
		WO-WO98/36288	08/20/1998	Korver, Kelvin	
		JP-JP07244150	09/19/1995	Korver, Kelvin	
		WO-WO2005/119386	12/15/2005	McClure, John A., et al.	
		WO-WO03019430	03/06/2003	Overschie,	
		WO-WO0024239	05/04/2000	Agsystems Pty, Ltd,	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS					
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		PARKINSON, BRADFORD W., et al., "Global Positioning System: Theory and Applications, Volume II", Bradford W. Parkinson and James J. Spiker, Jr., eds., <u>Global Positioning System: Theory and Applications, Volume II</u> , 1995, AIAA, Reston, VA, USA, pp. 3-50, (1995),3-50			
		" http://www.patentstorm.us/class/342/357.11-Attitude_determination.html ",			
		"Orthman Manufacturing Co., www.orthman.com/htm/guidance.htm ", regarding the "Tracer Quick-Hitch",			
		LIN, DAI et al., "Real-time Attitude Determination fro Microsatellite by Lamda Method Combined with Kalman Filtering", <u>A Collection for the 22nd AIAA International Communications Satellite Systems Conference and Exhibit Technical Paers Volume 1</u> , Monterey, California American Institute of Aeronautics and Astronautics, Inc., (May 2004),136-143			
		XU, JIANGNING et al., "An EHW Architecture for Real-Time GPS Attitude Determination Based on Parallel Genetic Algorithm", <u>The Computer SocietyProceedings of the 2002 NASA/DOD Conference on Evolvable Hardware (EH'02)</u> , (2002).			
		HAN, SHAOVEL et al., "Single-Epoch Ambiguity Resolution for Real-Time GPS Attitude Determination with the Aid of One-Dimensional Optical Fiber Gyro", <u>GPS Solutions</u> , Vol. 3, No. 1, PP. 5-12 (1999) John Wiley & Sons, Inc.,			
		PARK, CHANSIK et al., "Integer Ambiguity Resolution for GPS Based Attitude Determination System", SICE '09, July 29-31, Chiba, 1115-1120			
		"International Search Report and Written Opinion", PCT/US2004/015678, filed 05/17/2004, mailed 06/21/2005,			

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		"ISO", 11783 Part 7 Draft Amendment 1 Annex, Paragraphs B.6 and B.7 ISO 11783-7 2004 DAM1, ISO: March 8, 2004,	

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